

Mechanical Engineering Technology, B.S., Manufacturing Concentration

303-556-2976 Plaza Building 262
College of Professional Studies

Catalog 15-16

This sheet applies to the 2015-2016 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

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|---|------------|
| General Studies | 38 min. |
| Major courses | 68 |
| Concentration | 22 |
| Total to graduate (min. 40 hrs upper division) | 128 |

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

*TO BE COMPLETED WITHIN FIRST 30-CREDIT HOURS AT MSU DENVER

Written Communication

- ___ ENG 1010 (3 hrs) Composing Arguments*
OR ENG 1008/1009 (6 hrs) Intro to Composition I and II*
___ ENG 1020 (3 hrs) Freshman Comp: Anly, Rsrch, & Documt. (must be completed within 45-credit hours)

Oral Communication*

- ___ SPE 1010 (3 hrs) Public Speaking

Quantitative Literacy*: students must earn a grade of "C" or higher

- ___ MTH 1400 (4 hrs) Pre-Calculus
(Note: MTH 1110 (4 hrs) College Algebra and MTH 1120 (3 hrs) Trigonometry may substitute for MTH 1400)

Arts & Humanities

- ___ PHI 1030 (3 hrs) Introduction to Ethics
OR PHI 3360 (3 hrs) Business Ethics
___ (3 hrs)

Historical

- ___ (3 hrs) **recommended to select an approved multicultural course**

Social & Behavioral Sciences I

- ___ IND 2810 (3 hrs) Technology and Design: Global Perspectives
(recommended)

Social & Behavioral Sciences II

- ___ ECO 2020 (3 hrs) Principles of Microeconomics

Natural & Physical Sciences

- ___ PHY 2311 (4 hrs) General Physics I
___ PHY 2321 (1 hr) General Physics I Lab
___ PHY 2331 (4 hrs) General Physics II
___ PHY 2341 (1 hr) General Physics II Lab

Global Diversity may be satisfied within general studies

- ___ IND 2810 (3 hrs) Technology and Design: Global Perspectives
(recommended)

MAJOR COURSES: For every MET course, a minimum grade of "C" is required for all prerequisites before a student can progress.

___ **MET 1000 (3 hrs) Introduction to Mechanical Engineering Technology**

OR MET 1040 (3 hrs) Introduction to Engineering

___ **MET 1010 (3 hrs) Manufacturing Processes**

- ___ MET 1200 (3 hrs) Technical Drawing I
___ MET 1210 (3 hrs) 3D Modeling
___ MET 1310 (3 hrs) Principles of Quality Assurance
___ MET 2200 (3 hrs) Materials of Engineering
___ MET 3110 (3 hrs) Thermodynamics
___ MET 3160 (3 hrs) Mechanics II-Dynamics
___ MET 3185 (3 hrs) Fluid Mechanics
___ MET 3410 (3 hrs) Geometric Dimensioning and Tolerancing
___ MET 4000 (3 hrs) Project Engineering
___ MET 4100 (1 hr) Senior I (Sr. Exp.)
___ MET 4110 (2 hrs) Senior II (Sr. Exp.)
___ CET 2150 (3 hrs) Mechanics I-Statics
___ CET 3135 (4 hrs) Mechanics of Materials with Laboratory
___ CHE 1800 (4 hrs) General Chemistry I
___ COM 2610 (3 hrs) Introduction to Technical Writing
___ EET 2000 (3 hrs) Electric Circuits and Machines
___ EET 2350 (3 hrs) Advanced Technical Programming
___ EET 3010 (4 hrs) Industrial Electronics
OR EET 3730 (2 hrs) Process Control Systems
AND EET 3740 (2 hrs) Programmable Logic Controllers
___ MTH 1410 (4 hrs) Calculus I
___ MTH 2410 (4 hrs) Calculus II

MANUFACTURING CONCERNTRATION:

- ___ MET 3000 (4 hrs) Manufacturing Analysis
___ MET 3100 (3 hrs) N/C Computer Programming
___ MET 3250 (3 hrs) Tool Design & Production Tooling
___ MET 3300 (3 hrs) Statistical Process Control
___ MET 3330 (3 hrs) Robotics for Manufacturing
___ MET 3xxx (3 hrs) Upper-Division Elective
___ MET 4080 (3 hrs) Computer Aided Manufacturing

___ **Multicultural Requirement** may be satisfied within General Studies